

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number  
**WO 2004/023829 A1**

(51) International Patent Classification<sup>7</sup>: **H04Q 7/22**

(21) International Application Number:  
PCT/KR2003/001588

(22) International Filing Date: 7 August 2003 (07.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10-2002-0053607  
5 September 2002 (05.09.2002) KR

(71) Applicant (for all designated States except US): SK  
TELECOM CO., LTD. [KR/KR]; 99, Seoring-dong,  
Jongro-gu, Seoul 110-110 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LEE, Sang-Yoen

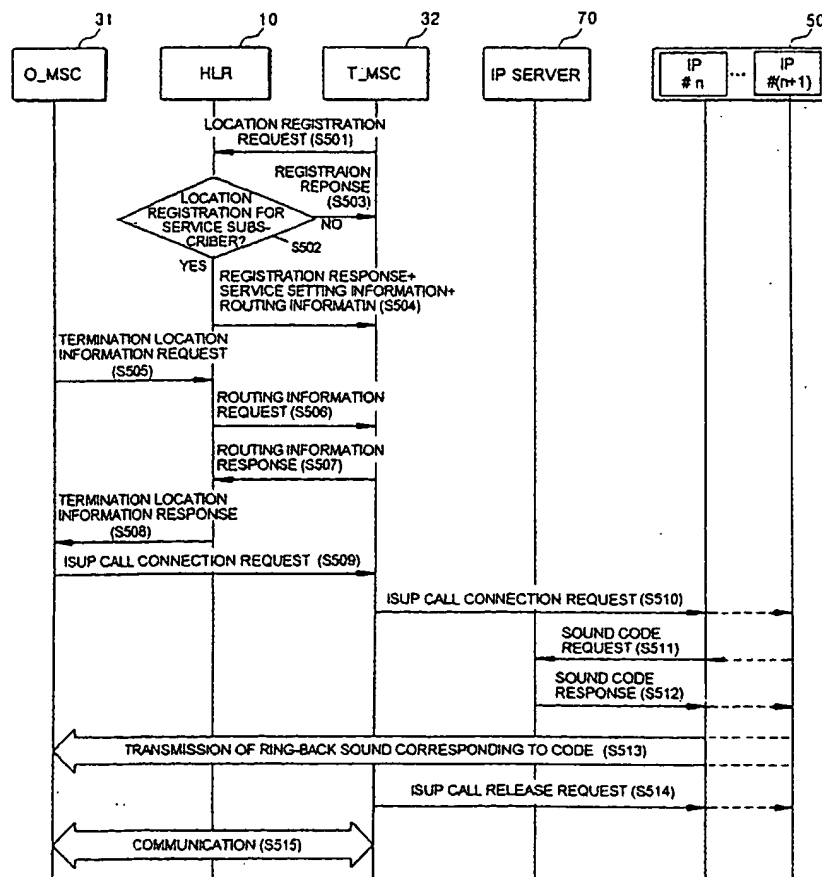
[KR/KR]; Sat-Beol APT 109-802, Bundang-dong, Bundang-gu, Sungnam-shi, Kyungki-do 463-030 (KR). HAM, Hee-Hyuk [KR/KR]; Sin-dong 1-liver park 705-2602, Noryangjin-dong, Dongjak-gu, Seoul 156-050 (KR). KIM, Ki-Moon [KR/KR]; Shinmyung-boram APT 202-401, Bugae 3-dong, Buhyung-gu, Incheon 403-100 (KR). NOH, Young-Tae [KR/KR]; Jungang APT 104-201, Shinrim-dong, gwanak-gu, Seoul 151-010 (KR). PARK, Jae-Young [KR/KR]; 2938, Sungnam-dong, Jungwon-gu, Sungnam-shi, Kyungki-do 462-130 (KR).

(74) Agent: LEE, Jong-Il; #904, BYC Bldg., 648-1, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,

[Continued on next page]

(54) Title: METHOD FOR CONTROLLING ROUTING INFORMATION FOR INTELLECTUAL PERIPHERALS IN SUBSCRIBER-BASED RING-BACK-TONE SERVICE



(57) Abstract: A method for controlling routing information for intellectual peripherals (IPs) in a subscriber-based ring-back-tone service. The routing information to be routed to IPs (50) corresponding to subscribers is classified on a subscriber telephone number-by-number basis, a subscriber telephone office number-by-number basis, a subscriber telephone office number group-by-group basis or a subscriber's major activity area-by-area basis according to a selection. The classified routing information is set and registered in a home location register (HLR) (10). When the HLR (10) receives a location registration request message from a terminal of an arbitrary subscriber, a corresponding routing information item to be routed to an IP (50) corresponding to the subscriber's terminal among the classified, set and registered routing information is contained within a response message to the location registration request message, and the response message is provided to a terminating mobile switching center (T MSC) (32).



SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,  
US, UZ, VC, VN, YU, ZA, ZM, ZW.

SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*